

Ishaan Mittal

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EDUCATION

University of Waterloo

Bachelor of Applied Science - BASc, Computer Engineering

Waterloo, ON

Sept. 2025 – Present

EXPERIENCE

CyberSecurity Intern

NetraScale

Jul 2025 – Present

Toronto, ON

- Boosted UI/UX interactivity by 25% by adding dashboards and visuals in React using prompt engineering.
- Streamlined analysis using FastAPI, Chart.js, and prompt engineering to create interactive timelines for activity, traffic, and threats.
- Improved client understanding by simplifying 20+ cybersecurity policies with summaries and visual aids.

Professional Development Staff Cadet

Government of Canada

Jul. 2024 – Aug. 2024

Vernon, BC

- Initiated daily team reflections to provide feedback and strengthen mentor-mentee relationships.
- Mentored 50+ peers through sessions and evaluations to improve knowledge transfer and leadership.
- Taught standards to 100+ individuals via guides and videos, ensuring safety and compliance.

First Robotics Programming Lead

Bishop Reding Secondary School

Sept. 2024 – April 2025

Milton, ON

- Led robot programming using Java, WPILib, and a command-based system for autonomous and teleop modes.
- Built vision pipelines with PhotonVision and OpenCV for AprilTag tracking and auto-alignment.
- Integrated encoders, LaserCAN, and Limelight for precise control, trajectory following, and driver feedback.

PROJECTS

Greenify | Python, JavaScript, OpenCV, Figma, ML

Oct. 2024 – Oct. 2024

- Built a Python ML application to detect food waste, promoting environmental sustainability.
- Processed meal images with YOLO and OpenCV to generate actionable ML data.
- Designed UI in Figma and added interactivity with CSS and JavaScript to improve user experience.

SmartVault | Java, OpenCV, JavaSwing, Alpha Vantage, Git

May 2024 – Jun. 2024

- Developed a bank simulator with authentication, FaceID, money transfers, and stock features using Java Swing.
- Implemented facial recognition with Java and OpenCV to provide convenient, layered security for users.
- Refined transfer/cashout systems and integrated AlphaVantage API for 10+ stocks, boosting user engagement.

BookVault | C#, WindowsForm, Git

May 2023 – Jun. 2024

- Developed a library simulation app with authentication, catalog, reviews, and barcode scanning.
- Implemented accurate date/time tracking for checkouts and returns to improve accountability.
- Enabled USB and webcam barcode scanner support to enhance usability.

TECHNICAL SKILLS

Languages: Java, Python, C#, C++, JavaScript, HTML/CSS

Frameworks: React, Node.js, Express.js, FastAPI

Developer Tools: Git, VS Code, Visual Studio, IntelliJ, NetBeans, Figma, Replit

Libraries: WPILib, OpenCV, JavaSwing, WindowsForm, PhotonVision, JQuery

CERTIFICATIONS

Introduction to MERN Stack

Simplilearn

Apr. 2025

Introduction to Generative AI

Google

Apr. 2025